

[0229] When the first touch 300 is detected in the main display area 190a and moves to the center area of the main display area 190a, the controller 110 may not display the application drawer 310.

[0230] The controller 110 may provide feedback corresponding to the display of the application drawer 310 to a user.

[0231] The feedback may be provided as one of visual feedback, audible feedback, or tactile feedback. Further, the controller 110 may provide a combination of visual feedback, audible feedback, and tactile feedback to a user.

[0232] The visual feedback may include a visual effect (for example, an individual image or an animation effect such as a fade that is applied to the individual image) corresponding to the display of the application drawer 310.

[0233] The controller 110 may display the visual feedback on the edge touch screen 190. The controller 110 may display the visual feedback in one of the main display area 190a and the edge display areas 190b or 190c. Further, the controller 110 may display the visual feedback in a combination of the main display area 190a and the edge display areas 190b or 190c.

[0234] The audible feedback may include a sound corresponding to the display of the application drawer 310. The controller 110 may output the audible feedback through the one or more speakers 163. The controller 110 may output the audible feedback through one of the first speaker 163a or the second speaker 163b. Further, the controller 110 may output the audible feedback through a combination of the first speaker 163a and the second speaker 163b.

[0235] The tactile feedback may include a vibration corresponding to the display of the application drawer 310. The controller 110 may output the tactile feedback through the one or more vibration motors 164. When the number of the one or more vibration motors 164 is greater than one, the controller may selectively output the tactile feedback through one of the one or more vibration motors 164.

[0236] A time for providing feedback (for example, 500 ms) to the user may be changed through an environment setting. Further, at least one of a plurality of feedback types (for example, a visual feedback, an audible feedback, and a tactile feedback) provided in response to the display of the application drawer 310 may be selected.

[0237] In step S460 of FIG. 4, when the controller 110 displays the application drawer 310, a screen display method of a portable device is terminated.

[0238] Returning to step S450 of FIG. 4, when the first touch location is not the active area A1, the method of FIG. 4 proceeds to step S470.

[0239] In step S470 of FIG. 4, it is determined whether or not the first touch location is in an inactive area.

[0240] Referring to FIGS. 5HA and 5HB, when the first touch location corresponding to the first touch 300 is not calculated, the controller 110 may determine that the first touch location is within an inactive area A2 in the edge display areas 190b or 190c.

[0241] The controller 110 may store, in the storage unit 175, inactive area touch detection information corresponding to a first touch detection in the inactive area A2. The inactive area touch detection information stored in the storage unit 175 may include a touch ID, a touch detection time, or touch information (for example, a touch pressure, a touch direction, and a touch duration time) for history management.

[0242] When the first touch location is in the inactive area A2 in step S470 of FIG. 4, the method of FIG. 4 proceeds to step S480. Further, if the first touch location is not in the inactive area A2, the screen display method of the portable device 100 is terminated.

[0243] In step S480 of FIG. 4, the edge panel is displayed in a direction from the edge display areas 190b, 190c towards the main display area 190a, in response to successive motions of the first touch. The edge panel 320 in FIG. 5J may be a panel (e.g. a control panel) displayed in the edge display areas 190b or 190c, in which a shortcut icon corresponding to a frequently used application (for example, a call application, a contact list application, a web browser application, a text message application, a widget application, or the like) is registered, or a phone number of an incoming call, the content of a received text message, news, stock information or the like are displayed. Further, a displayed shortcut icon may be executed according to a user input and displayed in the main display area 190a.

[0244] Referring to FIGS. 5I and 5J, the controller 110 may detect (or calculate) successive motions (for example, a plurality of X and Y coordinates corresponding to successive motions) of the first touch 300 initiated from the inactive area A2, using the edge touch screen 190 and the edge touch screen controller 195. Successive motions of the first touch 300 may be stored in the storage unit 175 under control of the controller 110. A touch on the edge display areas 190b or 190c may be a single touch or a plurality of touches.

[0245] Successive motions of the first touch 300 initiated from the inactive area A2 (for example, moving from an initial location 300a to a last location 300c) may refer to a first touch gesture detected from the edge display areas 190b or 190c to the main display area 190a.

[0246] Successive motions of the first touch 300 initiated from the inactive area A2 (for example, moving from an initial location 300a to a last location 300c) may indicate that the contact of the first touch 300 is continuously maintained from the edge display areas 190b or 190c to the main display area 190a. Further, in successive motions of the first touch 300, the contact on the main touch screen 190a may be touch-released at the last location 300c.

[0247] Successive motions of the first touch 300 from the inactive area A2 of the edge display areas 190b or 190c to the main display area 190a may include a drag, a drag and drop, a flick, or a swipe.

[0248] According to an embodiment of the present disclosure, successive motions of a touch includes a plurality of touches, and the description above of three touch locations 300a to 300c is one embodiment of the present disclosure, but the present disclosure is not limited thereto. The number of touches included in successive motions of a touch may vary.

[0249] When successive motions of the first touch 300 initiated from the inactive area A2 are detected, the controller 110 may enable the edge panel 320 to be exposed from edges 190b2 or 190c2 of the edge display areas 190b or 190c.

[0250] When successive motions of the first touch 300 initiated from the inactive area A2 are detected, the controller 110 may move the third application screen 220 according to the moving direction of the first touch 300. The controller 110 may display the edge panel 320 in a space generated by the movement of the third application screen 220.